

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN03/00384

A. CLASSIFICATION OF SUBJECT MATTER

IPC⁷ B62M 1/04, F16H 21/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷ B62M, F16H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

CHINESE INVENTION 1985-2002, CHINESE UTILITY MODELS 1985-2002

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

DATABASE: EPODOC, PAJ, WPI

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US, A, 6129646 (Farnos) 10.Oct.2000(10.10.2000) ,See the whole document	1
X	US, A, 5236211 (Meguerditchian) 17.Aug.1993(17.8.1993) See the whole document	1
X	FR, A, 2544042 (MICHAUDET G) 12.Oct.1984 (12.10.1984) , See the abstract	1
X	US, A, 3891235 (Shelly) 24.Jun.1975(24.6.1975) ,See the whole document	1
X	US, A, 4169609 (Zampedro) 2.Oct.1979 (2.10.1979) ,See the whole document	1
A	EP, A, 0190988 (PFEIFFER ULRICH) 13.Aug.1986 (13.8.1986) See all the figures	1-4
A	CN, U, 2061925 (Wang Ping) 12.Sep.1990(12.9.1990) ,See figures 1-3	1-4

☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

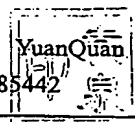
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
3. Dec.2003 (3. 12. 2003)Date of mailing of the international search report
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International application No.

US A 6129646

EP A1 1004504

31-05-2000

CN A 1256225

14-06-2000

US A 5236211

17-8-1993

None

FR A 2544042

12-10-1984

None

US A 3891235

24-6-1975

FR A 2276981

5-3-1976

US A 4169609

2-10-1979

CA A 1094352

27-1-1981

EP A 0190988

13-8-1986

None

CN U 2061925

12-9-1990

None